

Tourcraya giganten, Vent. of Bolanie Garden at Washingtonde. being in blown elwring Seps. & Octob. 1872.
Length of leaves 5' maximum width 6." Margin with a few exceptions smooth, one or the other bearing here and there a few short not very strong straight spines. Paint of the leave weak soon whithering. Substance fleshy and funcy; colour a dark sapgreen, shining, shape spathulate or highlate deeply chammeled The margins recurving. Alowering scape 15 to 18 in length, branchlets of the punicle disky occupying nearly the whole length of the Shafe except the Sovermost 3 feet. Indhine af panicle ovoid hanceolate, The length of the but lettle ascending branchlets gradually in creases from the middle of the shaft and decreases again at the height of from 14 to 15, whence it is gradually reduced to form the aprex of the punicle. The branchlets are spassely beat with real flowers, the Sower ones bearing none et all but instead a great mumber of bulblets, which also are profusely interspersed between the flowers, each one subtended by a brack the Same way as flowers are. These bulblets are easily recognised by their promited more levels shape, flowerbuls being move lound. The flowers through all perfect appear to have been sterile, be it on account of the late season with hower temperature or be it for the want of certain animal agents to whom mature may have entrusted the task of fertilization. My that he as it is with the present Specimen The preservation of the species seemed to have been assigned to the bulblets, which after the blooming was over began to grow Tapidly the whole plans and flowering shift returning to all appearances Their vitality unin paired and now after 7 months hulblets have grown to the length of from 6 to y" at this still chinging to their place of birth, while

a large mumber of others have dropped off in order to occupy a new home on the ground. If these latter I send a small ommber, which I have no doubt, will grow Tapsidly when planted. Manyh the flowers may greatly resemble even in de. til to those of what I provisionally called I. cubensis there is the widest difference in the habit of the two. In sire both agree, but the leaves of the batter are much and throughout with sharp curved sprines; substance of the leave, dry almost wordy and brittle higher yellowish green. The relation of the pramicle to the shafts whole length is about 1:3.5 whereas with & giganten it may stated as 1:1,5. The branchlets of cubensis are very closely set and curving soutward ascend under a steep angle, so that from a distance the panicle appears like a gorgeons spelle In decay the branch lets of the panicle become rigidly The family of S. cub. is spheroid to delloise. Jucea anguslifohn: / Bolan. garden). Stem 0. Length of leaves 10", with 6" (magin.) Substance supe persistent; margin towards apex filamentore. Scape. 2'8" beset with hvier coloured highlate bracks, lipped bright green but soon whithering Vanicle 15" long closely set with the flower bearing branchlet. the largest in the middle attaining double the length of Those below and lowerds the apprex. Each branchlets hears from one to 6 flowers. Subhine of francele first hirear hecoming in time ovale lanceolate. Verranth with 6 petals of which the 3 outer ones have one of the size of the onner ones; Colour greenish white The outer more depoloid and more greenish; fragrance resembling that of Carum carvi, but is less Strong . Thaming it thele essentially like those of filamenton

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MÉMOIRES ORIGINAUX.

— d, lèvre ou bec; — e, pièce cornée labiale vue en dessous.

- 7. id. Mandibules.
- 8. Papilles prises au bord postérieur du corps.—

ANTONIDES GUANAJUATENSIS mihi.

- 9. 10. Deux individus de grandeur naturelle, nageant;— 9, m'a paru Q; 10, m'a semblé &.
- 11. Ensemble grossi. $\frac{4}{1}$ —
- 12. Profil.—
- 13. Yeux.—
- 14. Palpes
- 14, 14'. id. écartées.
- 15. Hanches.
- 16. Portion de la 1^{re} patte.
- 17, 17'. 2me patte.
- 18. 4me patte.
- 19. Taches intestinales.

PITYOPHIS DEPPEI D. et Bib.

- 20. Ensemble.
- 21 Vue de profil 2 a clotte · h lancue · c lan-

d'acquérir un bon tiers de plus que son volume ordinaire, et c'est en se précipitant en avant qu'il expire brusquement une partie de cet air comprimé. Lorsqu'il se lève pour cette attaque et qu'il est très-irrité, le Serpent replie en trois la partie antérieure de son corps, qu'il contracte avec énergie, aplatit sa tête et fait vibrer rapidement l'extrémité de sa queue.

OISEAUX. — GALLINACÉS. — ORTALIDA MAC CALLI. 5 Larynx.

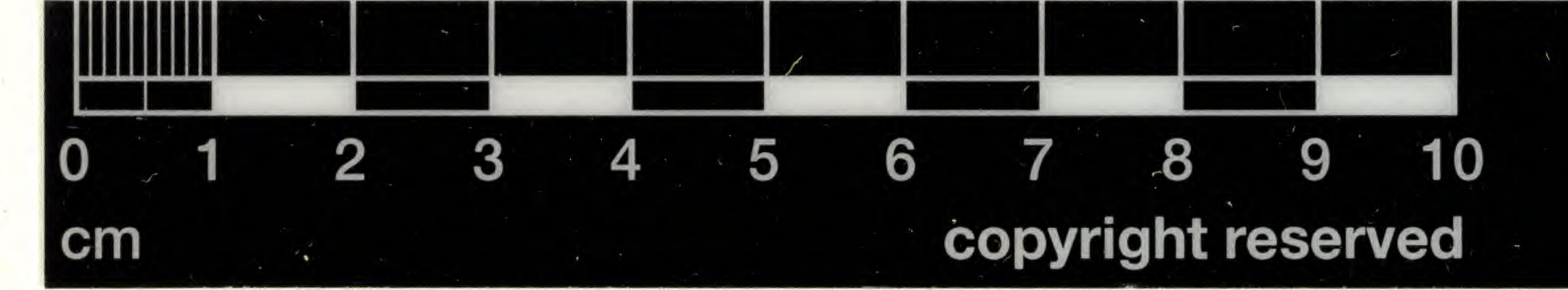
Cet Oiseau, nommé au Mexique Chachalaca, a une voix forte et stridente; j'ai cru en trouver la cause dans la disposition anatomique de la glotte, que je représente ici, et le cri discordant de l'Ortalida me paraît dû à la vibration de la lame verticale A, sous l'influence, sous l'impulsion de l'air fortement expiré.

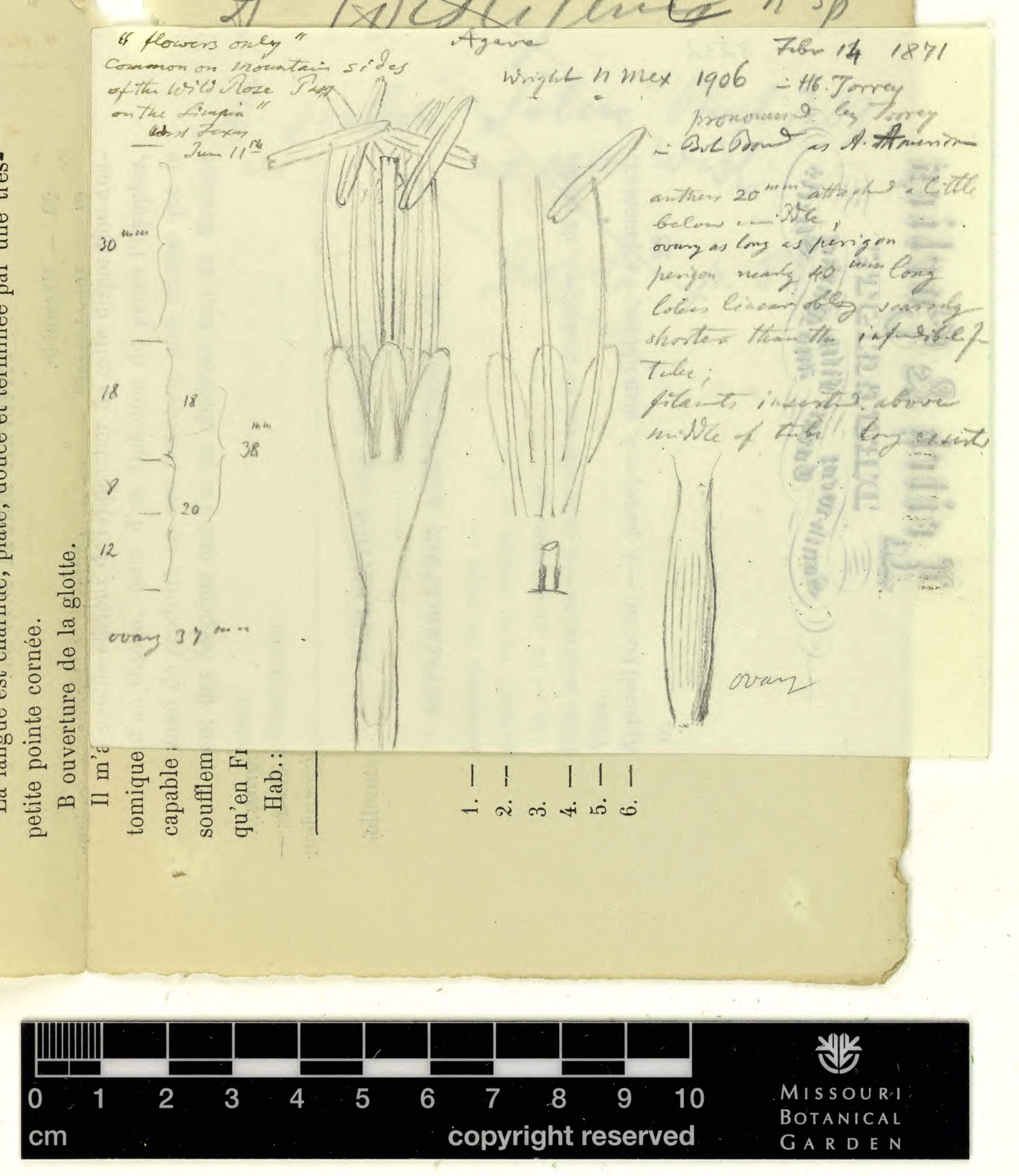
La langue est charnue, plate, douce et terminée par une trèspetite pointe cornée.

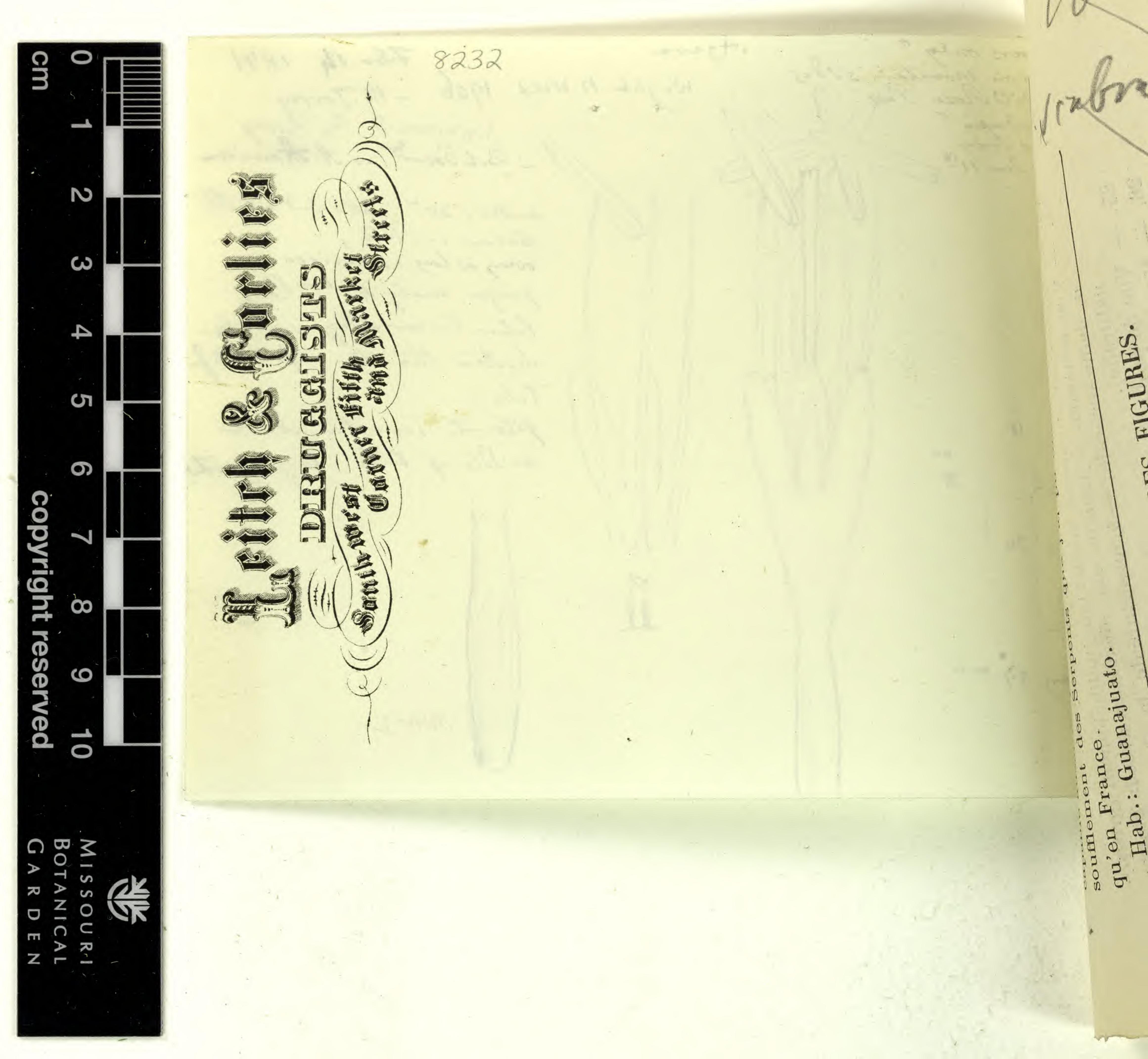
B ouverture de la glotte.

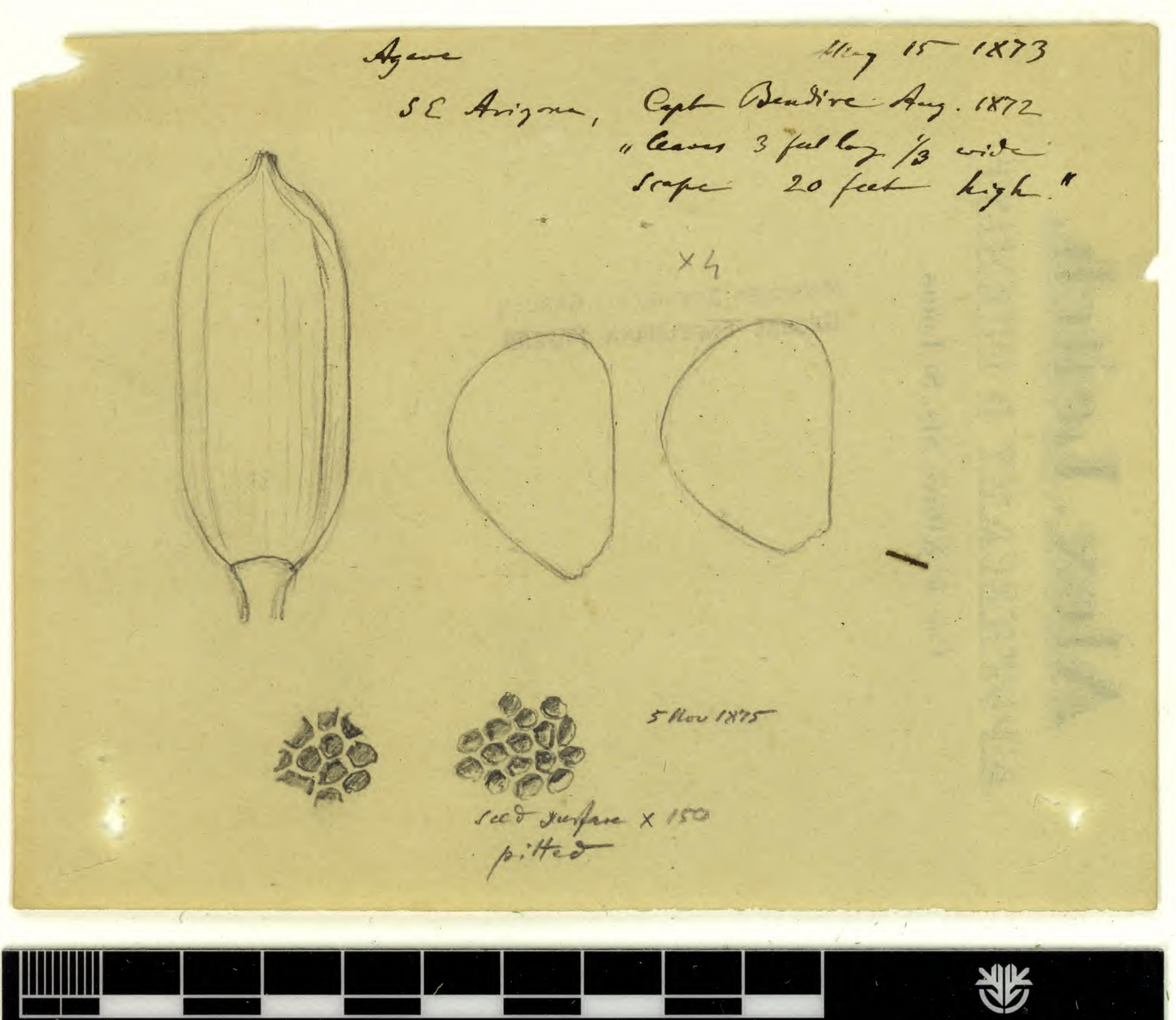
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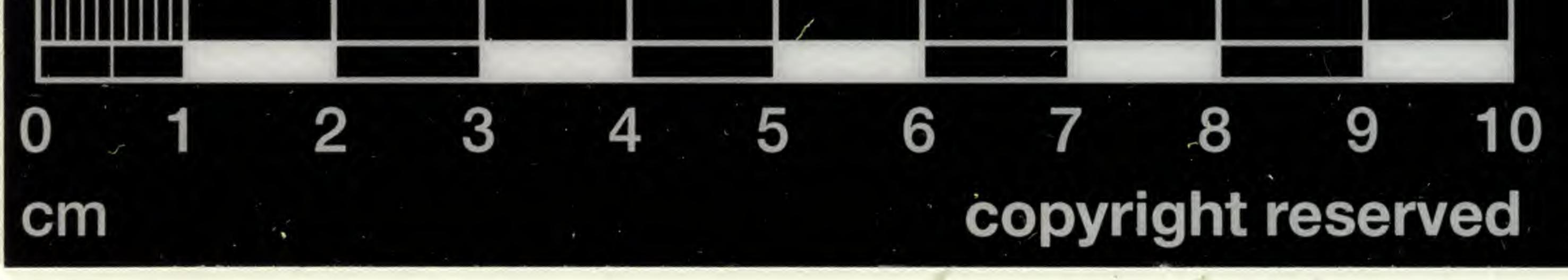
et striuei anatomic capanie aussi no hinanio an man ----- t soufflement des Serpents que j'ai pu observer tant au Mexique qu'en France. Hab.: Guanajuato. EXPLICATION DES FIGURES. RHYNCHOLOPHUS ALBOVITTATUS mihi. 1. — Longueur du corps. — 2. -- Animal vu en dessus. -- \(\frac{8}{4} \) -id. — vu en dessous. — 4. — Patte antérieure; — a, extrémité vue en dessus; — b, de profil. 5. — Yeux. 6. — Appareil buccal; — a, palpe; — b, mandibules; — c, pinceaux; MISSOURI BOTANICAL copyright reserved cm GARDEN











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The spring teeth of Agrice vary nenorment" i The Jame spects They in A vinheffelti, more so in A Glies breghtis, and A. Kerchovis is guite dingelan - Here i kyon we have many sperimens all from our "Jemis" (capsules sent by Roge) - some hove long teeth other smaller ones, and one sperimm has nom at all.

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Mr. Engler en m Jeorge woul-be herne title after dun SSOURI BOTANICAL GARDEN GEORGE ENGELMANN PAPERS MISSOURI

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Agave vivipam Li soppl ni Hert gussone (1869, Mapoli) is a forest organ and work probably - to judge by the analogy of the name Fourroge (Agre) tibeross on, puhaps. T. Celowie, Jack elso bears bulbs ser Runtt, on. N. 843

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Mondes. Revue etc. par l'abbé Moigno. Paris Les

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Agrical. Aepol for 1x69 1.259 PLATE XXIV. THE CAJUN. Fourtoya Culeus i? A Schott, Guratan. MISSOURI

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Juron andles Franken, Venezuela NE 1548 2 2173 exally the same as the one, figure I Took of Lenden reports the pearle on without Trunk, leaves spring-semale, 3-4 feek long, flowerstalk 15-20 feet high beans insumemble pendelon. Agance erect) Convers. totale appearance redeinblig Again

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Kurk in Mr. Gran, April.

p. 289.

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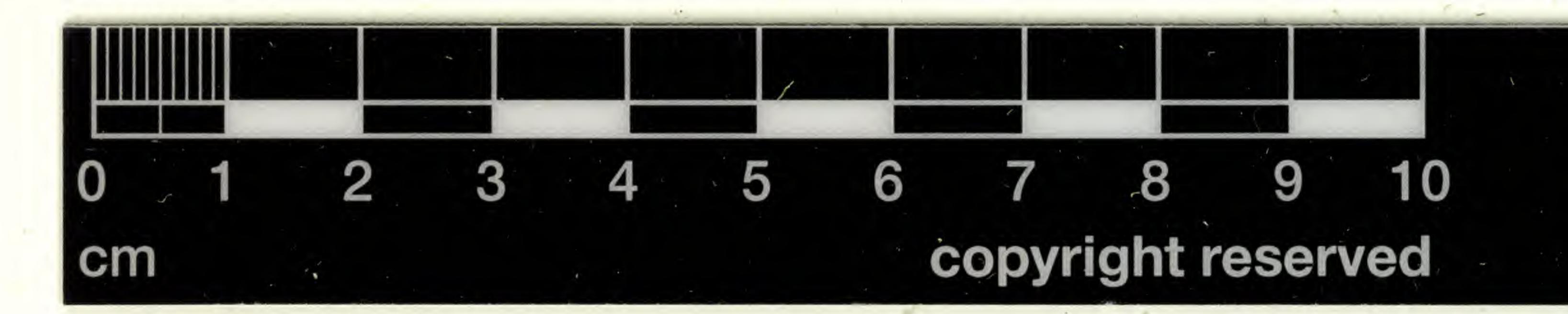
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Milden Codviverinum aprid Milden Relign, us, "bor, b. petala, Campanulata, Stam, busi Irlan tata. It ylus stamini hus larjor." M. L.J., b., p., 718,

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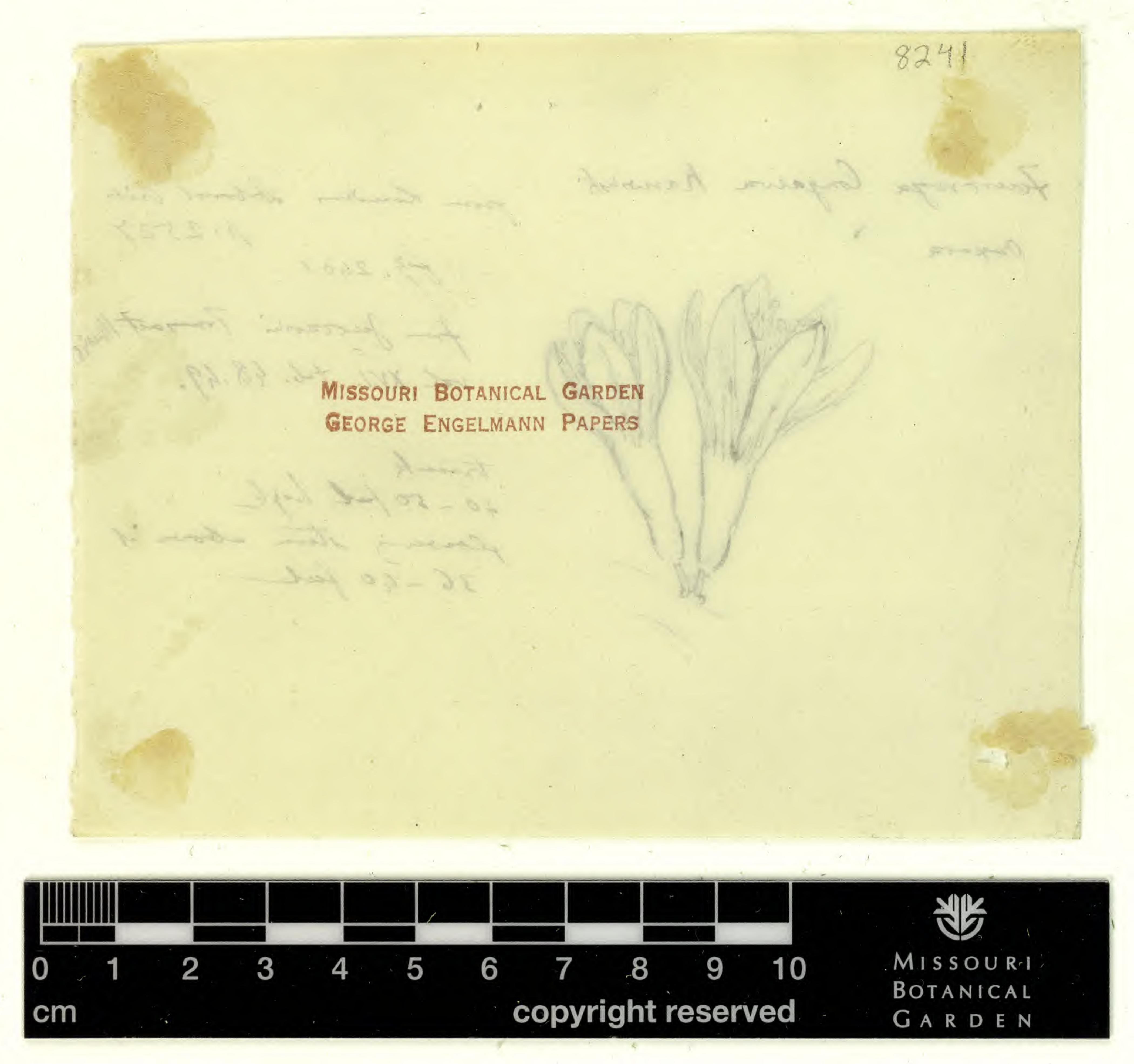
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Journoya longaiva Kanwinsk. from Lower Above 6it f. 25-27

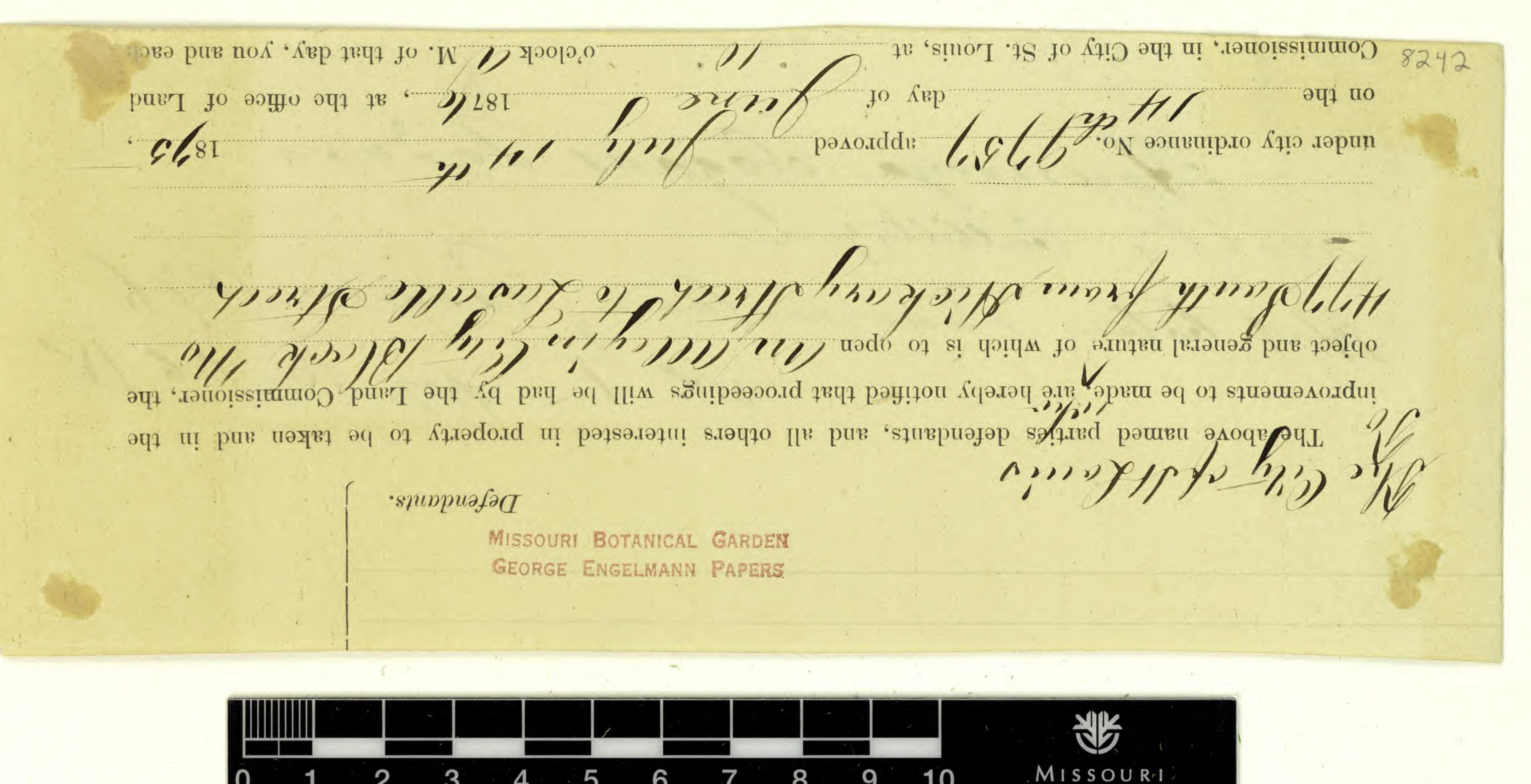
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Tourroya elegans Todaro araulis bulbilligen AM botas Panormilans, Janorni 1876 vol T. pg 13, leb IV





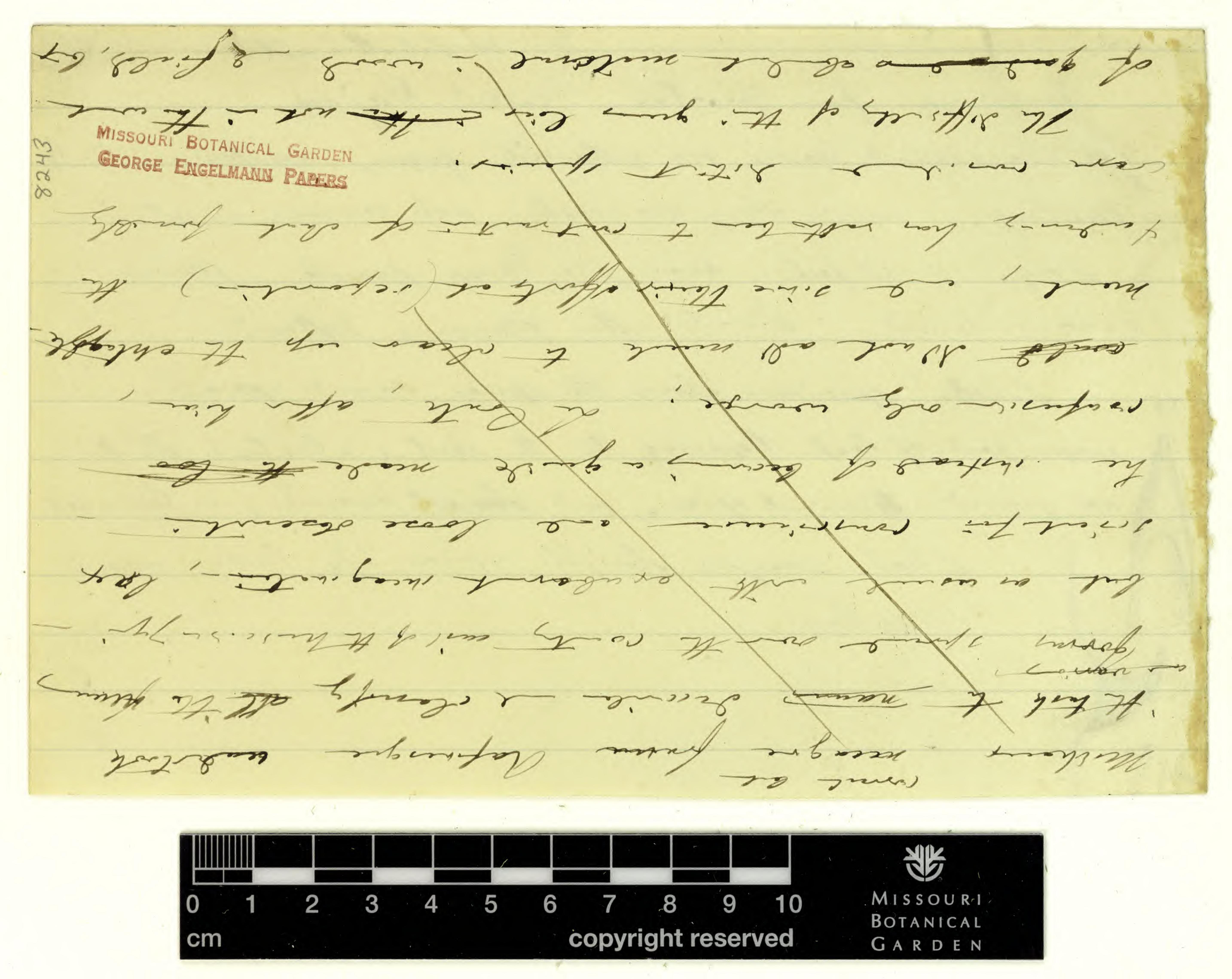
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A Solott, note, Fourroya for Yuratan, called Cajum The sharpspired leaves are yellowith green, ensiform, 5-6 feet long, more along sea roast, not commen i susterior Scape 15'-18 fech, bearing a deuxe paarile, flower cream coloured, branches after flowerry deflexed X4 Schott, sperimen shows the spikes ocerved uperards A upper part of leaf tapening to the short (2 lines les) stout I not grooved terminal spike, and about anarmed; on lower part leaf manying stroight, spiles 1/2 inches agant Enchallar

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Lourroya Part. 1793. Jacobi Agas. p. 265 foureroya longawa Karwa Just. Caulis 40-50 ped.

Caulitiumi la suce armita, margine stirte deuticles

Joseph 36-40 ped. c basi money 25- 30 pt lette Horas 1/2 poll Name. 268 of grantes Vent Cauly. folia lodiani i unione Surum attenueta, marquis integenima casin donso asperde; sapanlia former queleste dette vior Koutt. 273 L'atrovividis Jacobi'x Goeppert Canting 5 peoples folia 8-padalia laurevlato-liheania dun mucronte ategra cavina doma vix aspenda. THE (George Franklin) LIBRAR! 276 Zituberosa Ait Camber 6-8 polleraris proles nulle [miller] folia elongeto - Cacerolata. Las pedlia longe i aemi accua. morgine deutstin remotes corneis armala scripus 12- pedeli; A. 2/2 pole Sam. av 7. Lippicasa) 280 . T. Clavovindj. Hook. Real del monte acail, folig Prindlei laureolate somleoleta Al. 4 pollendian. 282 L. gemine spina, Sucoli il Dunings! Canlescen, 2-5 poll. all. folice Commentate 3/2 poll longe wix accomments accommentate dentiden neurgevaldes plemingen bring Astantiber



p. 283 f. Cabensis Hans. folis ensiformin accuments, o ciliato sperose vivipara soyn 15 pd. flores 286 7. Commelyni Salen Mex to Carlegrens 3-4 poll. all. folis lancolate inemi - armenti, spane irregulanter gradilateta 3 port fl. 2 poll. lobi linain obloga Scapen 25 pedel 289 7. Sellow Koch Justi mala My radon July Conterposit folis Comani - Canvelate mucionta moxapide Marresage Zublin æspen spannine ngularite. valido desteta; 290 F. Gedinghousei Koch Caule some & pollie. folia Cabrani - Canowlate Sero - mecoronta d'éplan unante semulate police aspendia Hon 2 pollet. don pay 293 La deparque vala ducola acarly. folis laureolet, petalis inolli-mueronata utningen glaben seurs minute d'entate sapan 3 prolles Al. 2 poll Cati MISSOURI

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297 tourroya. Demontrarana Jacobi folis lie Landeredet ihermen meerrouets utringen glehn · sparsintornes - dentiralete 22 pollerans Scapen 9-10 peder Divipano fl. app. 51. L. Banilletti Line; 2. gateur proxima Into mule pas folia 3 mpenting mollita merronate falegn s. sparting Scaletalet utrague glaben app. 5.4 Laciparience Lavole. proxece la la vosace o amely folen Camerlah 28-poller nigite americante (menon mariesante / atriagen glabon muitante de l'illa soup. 12 ped. At 2/2 pell d'an. vivipon app. 55 F. undalate Jacob. Mux 110 acali; folis 1/2 per. acolento-macronety. unbelates, rependo-dalitela Feeller, athony appr 5-6 2. Ariels Jacob. proxim laboraga à carle, folis en policie setter aspen. i acomi accounting remote dentat, scape 8-9 feele. Jesta. Wassers Inches Inches

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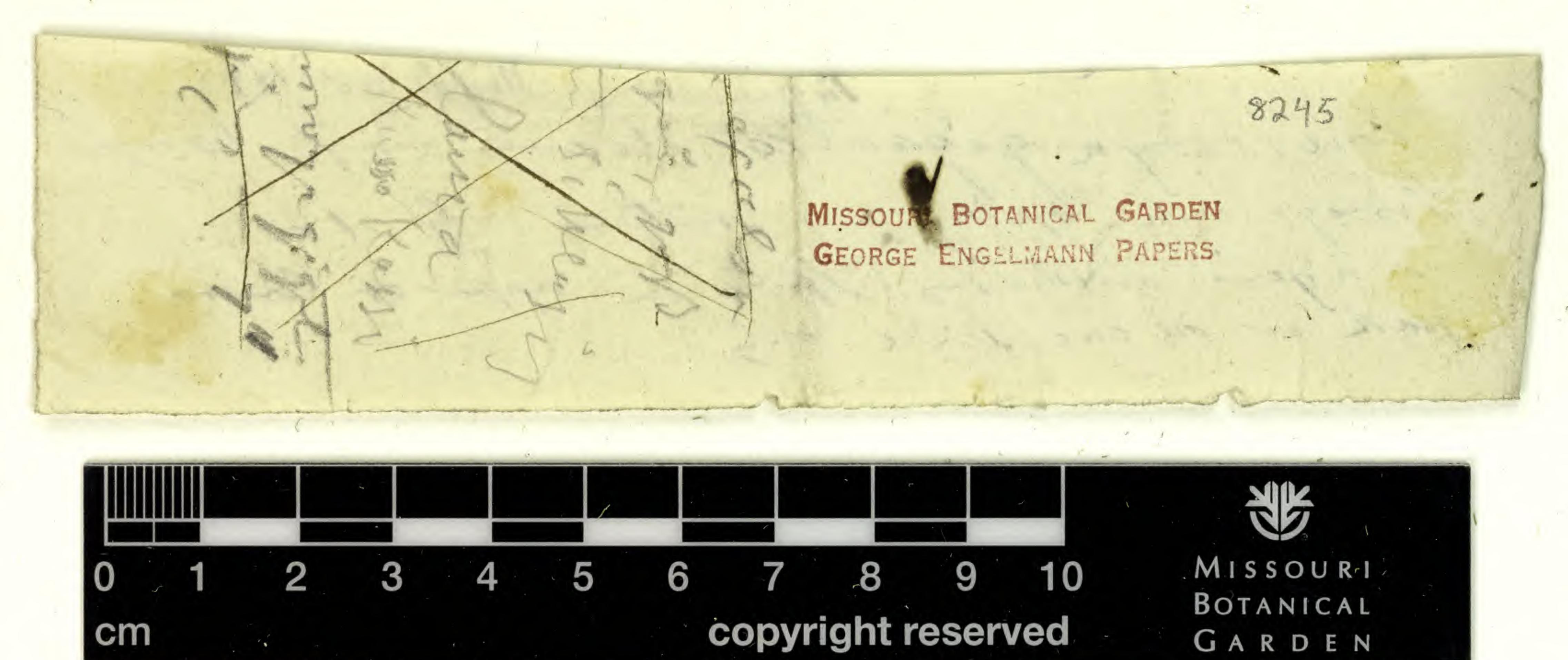
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app. 59. L. Hiloni, Francis Arope Calberre fol Cale - Cacerolete 1/4 podel. Therme accumulated solve, as pero information doubtionlate proper delloans. cep. 60 d. Valleoulety Jaiol. · ceanly folia longo lacreolata 2 je peterlei income acainante dubles, aspen dentely inte Hrispann: F. Cubenses, F. Desacoloriaan, L. Lipsvices is folis integeriere i T. gigeneter, stre vividi, Barilleti ?, strik Jolis Minuste dultimale i Banilleti ; longanne, Cubinsing Dedrighaus i j depauperate, Desmouler aua, Lipsieusig undellati, Atoloni folis quelesto dealets; tuberosa pleavoisidy, geominispina, contenni (!) Commelyni, Selloa, stricte, villemlata Eletate Cajam vivipar MISSOURI BOTANICAL GARDEN GEORGE ENGELMANN PAPERS MISSOURI

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Four mya gigantes leaves 6-7 low inegalanty spins south of 1 or 2 or agen tumely they on upper or lower part or one Live only





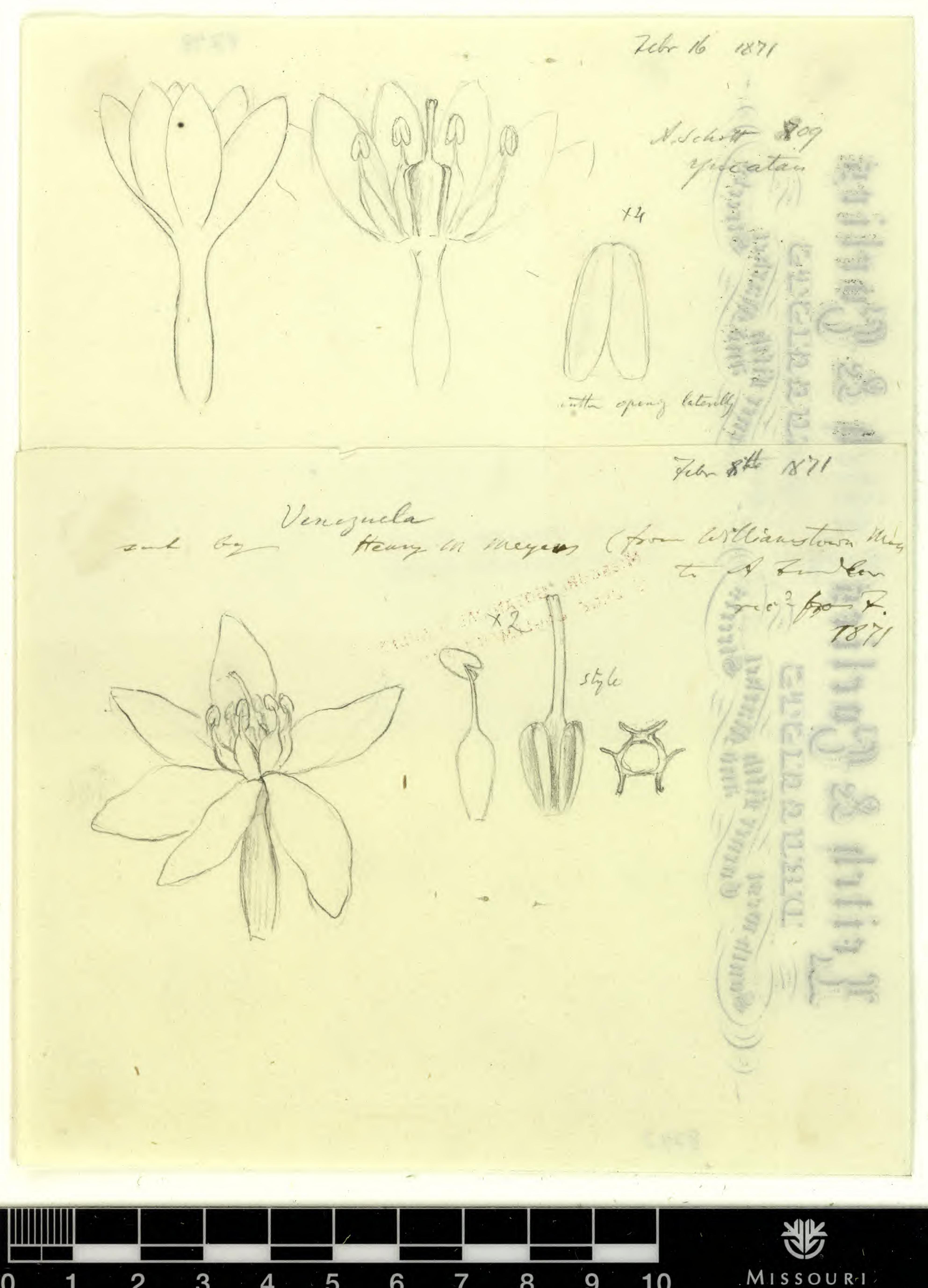
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